Table 1
Health Effects Assessment Plan
Outline of Tiers

Tier I - Analyses of chemicals Whole smoke acidity (pH) reduction/oxidation potential Gas phase gases carbon monoxide hydrogen cyanide nitric oxide aldehydes acetaldehyde acrolein proprionaldehyde volatile hydrocarbons benzene toluene 1,3-butadiene isoprene volatile nitrosamines N-nitrosodiethvlamine N-nitrosodimethylamine N-nitrosopyrrolidine Particulate phase catechol nicotine phenols, as phenol polyaromatic hydrocarbon benzo(a)pyrene tar-FTC tobacco specific nitrosamines N'-nitrosonornicotine 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone

Tier II- In Vitro Tests
Salmonella mutagenicity (Ames' assay)
mouse embryo fibroblast cell transformation assay

Tier III - Human Smoking Behavior cotinine carbon monoxide topography

Tier IV - Animal Tests

mouse inflammatory lung response
hamster upper respiratory tract carcinogenicity
mouse skin painting carcinogenicity